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PTO/SB/08A (08-00)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number Unassigned 10/1564276
 Filing Date January 11, 2006
 First Named Inventor Atsutaka MANABE et al.
 Group Art Unit Unassigned
 Examiner Name Unassigned
 Attorney Docket Number MERCK-3115

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
/SW/	1	4594465			June 10, 1986
	2	5384071			January 24, 1995
	3	5358663			October 25, 1994
	4	6083423			July 4, 2000
/SW/	5	5800737			September 1, 1998

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
/SW/	6	EP	0132377		Merck Patent GmbH	January 30, 1985		Equv to cite 1
	7	WO	8707890		Secr Defence Brit	December 30, 1987		Equv to cite 2
	8	GB	2198743		Secr Defence	June 22, 1988		
	9	GB	2200912		Secr Defence	August 17, 1988		
	10	WO	8903821		Secr Defence Brit	May 5, 1989		Equv to cite 3
	11	WO	9115555		Merck Patent GmbH	October 17, 1991		Equv to cite 4
	12	WO	9533802		Central Research Lab Ltd.	December 14, 1995		Equv to cite 5
	13	JP	04279695		Dainippon Ink & Chem Inc.	October 5, 1992		
/SW/	14	GB	2367058		Merck Patent GmbH	March 27, 2002		

Examiner
Signature

/Shean Wu/

Date
Considered

09/24/2007

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached. Number refers to English language corresponding family member.

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Unassigned / 564276
		Filing Date	January 11, 2006
		First Named Inventor	Atsutaka MANABE et al.
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
Sheet 2 of 2	Attorney Docket Number	MERCK-3115	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	15	Patent Abstracts of Japan Bd. 017, Nr. 079 (C-1027), 17. February 6 1993 (1993-02-017)	
	16	CHAN, L.K. M. et al: "synthesis and evaluation of some 4,4"-disubstituted lateral fluoro-1,1':4',1''-terphenyls" MOLECULAR CRYSTALS AND LIQUID CRYSTALS; ISSN: 0026-8941, Bd. 123, 1985, 185-204, XP009038157.	
	17	CHAN, L.K. M. et al: "Reentrant nematic and injected smectic behaviour in binary mixtures including those of terminally non-polar compounds" MOL. CRYST. LIQ. CRYST. Bd. 150, 1987, 335-359, XP009038155.	
	18	CHAN, L.K. M. et al: "Synthesis and liquid crystal behaviour of further 4,4"-disubstituted 2'-fluoro-1,1':4',1''-terphenyls" MOLECULAR CRYSTALS AND LIQUID CRYSTALS; ISSN: 0026-8941, Bd. 158, 1988, XP000005279.	
	19	GRAY, G. W. et al: "The synthesis of several lateral difluoro-substituted and 4,4"-dialkyl- and 4,4"-alkoxyalkyl-terphenyls and a rationalization of the effect of such substitution on mesophase type and transition temperatures" MOLECULAR CRYSTALS AND LIQUID CRYSTALS; ISSN: 0026-87941, Bd. 204, 1991, 43-64, XP000236763	
	20	HIRD M ET AL: "The synthesis transition temperatures of some lateral cyano-substituted 1,1':4',1''-terphenyls" MOLECULAR CRYSTALS AND LIQUID CRYSTALS, Bd. 206, 1991, 205-221, XP000236824.	
	21	XU, J. et al: "Liquid crystal system as molecular machinery: investigation of dynamic impedance matching between molecular core and terminal groups using rotor-bearing model" Japanese journal of applied physics, Bd. 39, Nr. 4A, Part 1, 2000, 1801-1807, XP001014936.	
	22	Reiffenrath, V. et al: "Synthesis and properties of liquid crystalline materials with high optical anisotropy" SPIE LIQUID CRYSTAL DISPLAY AND APPLICATIONS, Bd. 1257, 1990, 84-94, XP009038208.	

Examiner Signature	/Shean Wu/	Date Considered	09/27/2007
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